

Panasonic
ideas for life

Super Dynamic III
Color Surveillance Cameras
Product Line-Up



Super Dynamic III — Exceeding the human eye.

Panasonic introduces the *Super Dynamic III* Series, the first surveillance cameras able to think and act on their own.

They detect both external changes and attempts at interference and take the precise action required to prevent loss of vital scenes.

Superb image quality, the result of unprecedented image-processing performance, delivers a true picture needed for rock-solid identification.

With their extraordinary intelligence and active foresight, *Super Dynamic III* Series cameras bring amazing reality to 24-hour surveillance.

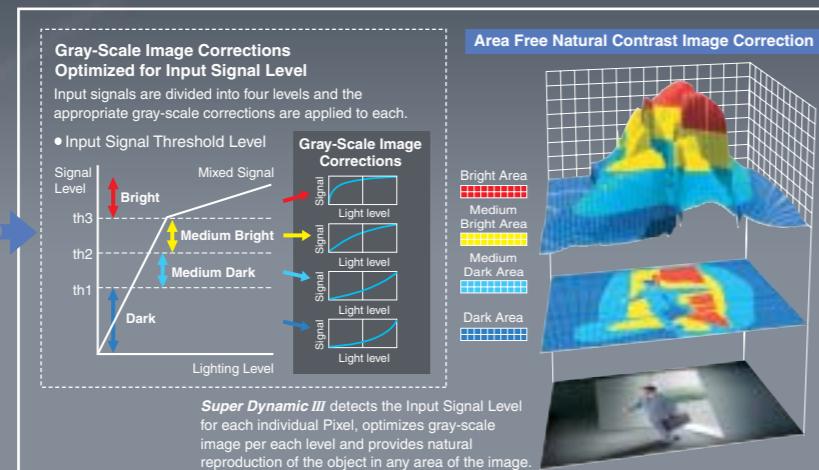


SDIII
Super Dynamic

The Leading Original Technologies Behind *Super Dynamic III*

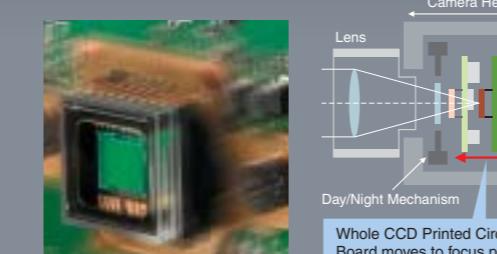
Pixel Based 128x Dynamic Range

The double speed CCD outputs a 1/8,000 second short signal to capture the bright area of the image and a 1/60 second long signal to capture the shaded area. The enhanced DSP combines these signals to provide a dynamic range 128 times greater than a standard video camera. Also newly developed in the DSP is "Area Free (Pixel Based) Natural Contrast Image Correction", which optimizes the gray-scale image in response to the Input Signal Level of each individual Pixel. The Pixel Based 128x Dynamic Range delivers a smoother natural reproduction of high contrast images, e.g. heavy backlight conditions, regardless of object position, size, shape, or number.



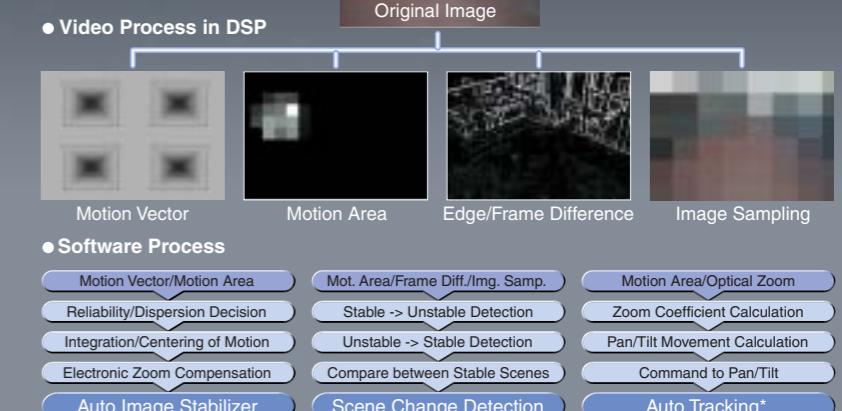
Auto Back Focus (ABF) (WV-CP480 Series only)

When switching from color to B/W mode, the WV-CP480 Series automatically adjusts the CCD position to achieve the return to perfect focus. Blurring caused in previous cameras by removing the IR cut filter is eliminated. Then, when the camera switches back from B/W to color mode, the CCD automatically returns to the correct position for color imaging, ensuring perfect focus 24 hours, both night and day. Another important benefit of Auto Back Focus is eliminating the time and labor required to adjust focus after cameras have been installed. Focus can be roughly set when a camera is installed, then adjusted using the optional system controller.



Intelligent Processing

Our newly developed DSP extracts Motion Vector, Motion Area, Edge/Frame Difference and Image Sampling data from the image and sends that data to the new Image Analysis Algorithm. The Algorithm is embodied in the proprietary microprocessor that performs the complex processing required by *Super Dynamic III*'s amazing intelligent functions.



*WV-CW964/WV-CS954 only

SEES REALITY

To show you reality clearly, **Super Dynamic III** cameras take image processing to new peaks, with all the contrast, detail and color of reality itself, even in dimly lit situations. This breakthrough in visual surveillance delivers the definitive picture you need for accurate identification.

Whatever the Subject

Pixel Based 128x Dynamic Range

Super Dynamic III uses Area Free (Pixel Based) Natural Contrast Image Correction to optimize contrast and faithfully reproduce subjects in every area and position. Combining 1/8,000 sec. and 1/60 sec. shutter speed signals gives this amazing system a 128x Dynamic Range that makes it the perfect surveillance solution for ATMs, building entrances, and other situations where contrast changes depending on time, weather and season.



Real in the Smallest Detail

540-line Horizontal Resolution

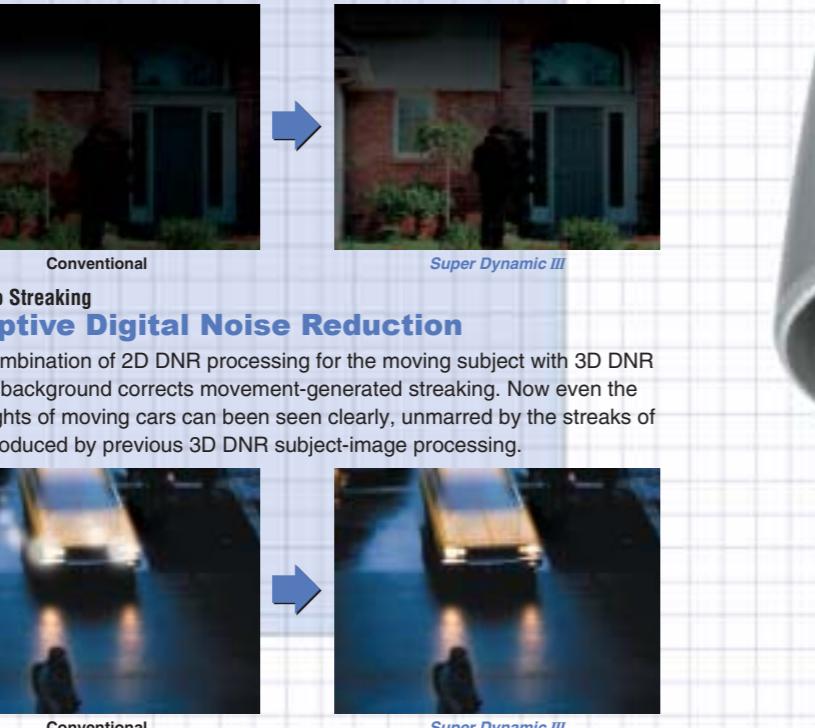
The combination of optimized filtering with wide bandwidth digital signal processing developed for the **Super Dynamic III** DSP delivers color images with 540 lines (typical) and B/W images with 570 lines of horizontal resolution, revealing the picture's smallest detail.



Realistic Natural Color

Color Processing Enhancements

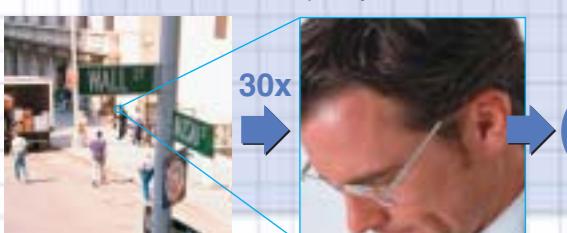
To ensure that what you see is the full range of natural color, the digital color circuitry in our newly developed DSP processes color at a finer level of detail, enabling reproduction of even poorly illuminated or pale colors.



Zoom in to Catch Distant Subjects (WV-CW964/WV-CS954 only)

30x Optical Zoom (Up to 300x with Digital Zoom)

WV-CW964/WV-CS954 come equipped with a 30x optical zoom lens. The addition of 10x digital zoom means zoom capability up to 300x, allowing you to zoom in on distant subjects in high position, wide area surveillance applications. Combined with high image quality, the result is a new advance in identification capability.



0.065°/sec. Super Fine Pan Control

Our proprietary control chip, DC brushless motor and the optimized speed profile built into the microprocessor give you 0.065°/sec. Super Fine Pan Control. Combined with high-performance zoom, this feature enables you to smoothly track and capture moving subjects.



For All-Weather Outdoor Use (WV-CW964 only)

Rain Resistant

The WV-CW964 camera can be installed under eaves, on external walls or rooftops, and in other outdoor locations. It's IP66 (IEC60529 standard) approved.



Ready for Temperature Changes

The housings built-in fan and heater ensure an operating temperature range of -40°C to +50°C (-40°F to +122°F).



**IP66
standard**

**Super Dynamic III
Color Surveillance Cameras
WV-CP480 SERIES**



THINKS ACTIVELY

Confronted with changing environments or attempts at interference, these cameras think — and then act — to deliver the best possible image. Super smart, **Super Dynamic III** offers the active reliability to ensure the results you need under a wide variety of conditions for a host of applications.

Sharply Focused Day and Night

Auto Back Focus (ABF) (WV-CP480 Series only)

In WV-CP480 Series cameras, the ABF feature automatically adjusts the CCD position when changing from color to B/W mode, optimizing the back focus required for clear, sharp images. In addition, the one-push Auto Focus feature sharply reduces the time required to focus cameras during installation, allowing focus to be set using the optional system controller.



Auto Focus (WV-CW964/WV-CS954 only)

WV-CW964/WV-CS954 cameras are all equipped with Auto Focus, ensuring that what you see is always sharply in focus.



Removing Blur

Auto Image Stabilizer

Cameras attached to poles may be affected by high winds. Cameras may also be affected by vibration from aircraft, trains or large trucks. Automatic image stabilization prevents blurring under these conditions.



Detecting Interference

Scene Change Detection

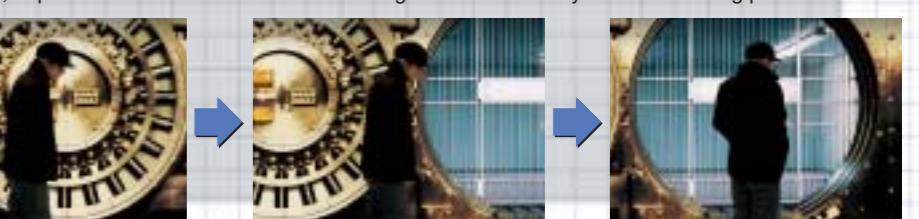
This feature detects interference and sends an alarm signal when the camera's operation has been hampered with, such as a manual change in the camera's angle, removal of the camera lens, defocus, blockage of the camera lens with cloth or paint.



Following Intruders

Auto Tracking (WV-CW964/WV-CS954 only)

This feature automatically follows the largest movement in the image, causing the camera to pan and tilt to keep the subject in the center of the image. Ideal for detecting intruders in vaults, pharmaceutical or chemical labs, prisons, or wherever access is limited. It is also the solution for banks, restaurants, department stores and warehouses at night when no activity should be taking place.



The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.



Weather Proof
Super Dynamic III
Color Dome Camera
WV-CW964 (AC 24V)



IP66
standard

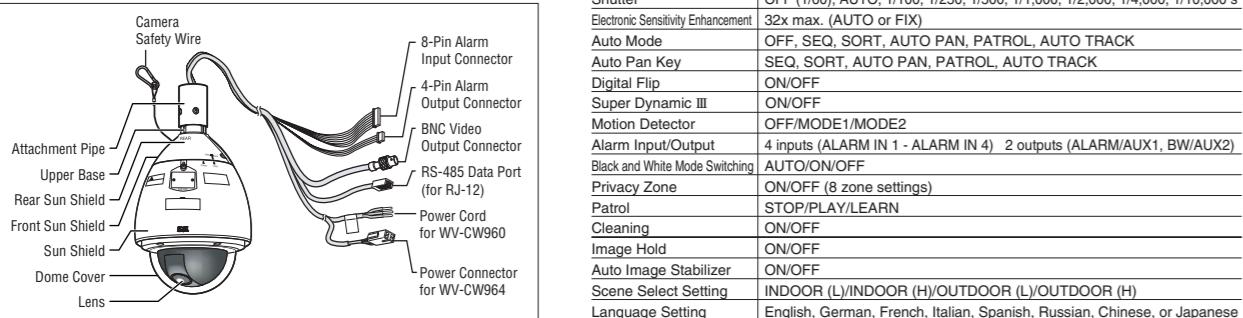
30x
OPTICAL ZOOM



For All-Weather Outdoor Use.

- IP66 of IEC 60529 standard for all weather proof environmental structure.
- Built-in fan/heater for temperature changes of -40°F ~ +50°C (-40°F ~ +122°F).
- Built-in sun shield permits camera locations in direct sunlight.
- All-in-one color dome camera unit.
- The new Pixel Based 128x Dynamic Range with area free natural contrast image correction adjusts moment-to-moment changes in contrast to view subjects accurately in all areas and positions.
- Higher horizontal resolution of 540-line (typical) at color mode, and 570-line at B/W mode.
- Minimum illumination of 0.5 lux (0.05 fc) at color mode, and 0.04 lux (0.004 fc) at B/W mode.
- Innovative intelligent features:
 - Auto image stabilizer function for applications where vibration or wind is a concern, e.g. passing vehicles.
 - Scene change detection alarms when lens is covered, spray painted, removed, defocused or camera angle is changed.
 - Auto tracking function tracks moving objects and keeps them centered in the field of view for restricted areas and after hour applications.
- Day/Night operation can be selected to automatically or manually switch from color to B/W.
- Privacy zone masking function.
- Linear 32x electronic sensitivity enhancement function.
- Digital motion detector.
- 30x optical zoom lens (3.8 ~ 114 mm) plus 10x electronic digital zoom for total zoom capacity of 300x.
- Auto focus lens.
- Digital FLIP by memory allows automatic 180° turn.
- Patrol Learn function (8 zone total).
- Auto panning function with 256 preset positions.
- 360° endless panning.
- Panning speed of max. 400°/s at preset mode and 0.065°/s super fine control at manual mode.
- Image Hold function during panning.
- Multiplex-coaxial or RS-485 data communication.
- Four (4) alarm inputs and two (2) outputs terminals.
- 16 alphanumeric character display.
- Internal/Line-lock/Multiplexed Vertical Drive (VD2) synchronization.
- 24V AC, 60Hz power source.

MAJOR OPERATING CONTROLS & TERMINALS



Super Dynamic III
Color Dome Camera
WV-CS954 (AC 24V)

30x
OPTICAL ZOOM



30x Optical Zoom. Auto Tracking. 256 Presets.

- All-in-one color surveillance dome camera unit.
- The new Pixel Based 128x Dynamic Range with area free natural contrast image correction adjusts moment-to-moment changes in contrast to view subjects accurately in all areas and positions.
- Higher horizontal resolution of 540-line (typical) at color mode, and 570-line at B/W mode.
- Minimum illumination of 0.5 lux (0.05 fc) at color mode, and 0.04 lux (0.004 fc) at B/W mode (Sens. up; off, AGC High).
- Innovative intelligent features:
 - Auto image stabilizer function for applications where vibration or wind is a concern, e.g. passing vehicles.
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- Internal/Line-lock/Multiplexed Vertical Drive (VD2) synchronization.

*2 Actual speed depends on type of controller being used.

Lens

Zoom Ratio	30x (approx. 300x with digital zoom)
Focal Length	3.8 mm ~ 114 mm
Maximum Aperture Ratio	1:1.4 (WIDE) ~ 3.6 (TELE)
Object Distance	1.5 m
Iris Range	F1.4 ~ 22, Close
Angular Field of View	Horizontal: 1.8° (TELE) ~ 52° (WIDE) Vertical: 1.4° (TELE) ~ 40° (WIDE)

Main Functions

Controller Interface	Coaxial Multiplex System, RS-485
Control Functions	Pan, tilt, zoom and focus, 256 preset positions, home position, patrol
AGC	ON (LOW), ON (MID), ON (HIGH), OFF
Title (ID)	ON, OFF (Preset ID, camera ID, area title: 16 alphanumeric characters)
Zoom Speed	approx. 6.0 seconds (TELE ~ WIDE) in manual mode
Zoom Limit	1x ~ 300x (Over 30x is electronic zoom)
Password Lock	All menus
Auto Focus	MANUAL/AUTO (PAN, TILT, ZOOM linked)
Iris	ALC (Adjustable OPEN/CLOSE output target level)/MANUAL
Shutter	OFF (1/60), AUTO, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s
Electronic Sensitivity Enhancement	32x max. (AUTO or FIX)
Auto Mode	OFF, SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK
Auto Pan Key	SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK
Digital Flip	ON/OFF
Super Dynamic III	ON/OFF
Motion Detector	OFF/MODE1/MODE2
Alarm Input/Output	4 inputs (ALARM IN 1 ~ ALARM IN 4) 2 outputs (ALARM/AUX1, BW/AUX2)
Black and White Mode Switching	AUTO/ON/OFF
Privacy Zone	ON/OFF (8 zone settings)
Patrol	STOP/PLAY/LEARN
Cleaning	ON/OFF
Image Hold	ON/OFF
Auto Image Stabilizer	ON/OFF
Scene Select Setting	INDOOR (L) / OUTDOOR (H) / OUTDOOR (L) / OUTDOOR (H)
Language Setting	English, German, French, Italian, Spanish, Russian, Chinese, or Japanese

OPTIONAL ACCESSORIES

WV-CS3S	Smoke Cover
WV-Q105	Direct Ceiling Installation
WV-Q116	Embedded Ceiling Installation
WV-Q117	Suspended Ceiling Installation
WV-Q118	Wall Installation



Super Dynamic III
Color Dome Camera
WV-CS954 (AC 24V)

30x
OPTICAL ZOOM



30x Optical Zoom. Auto Tracking. 256 Presets.

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Lens

Zoom Ratio	300 (30x optical zoom plus 10x electronic digital zoom)
Focal Length	3.8 mm ~ 114 mm
Maximum Aperture Ratio	1:1.4 (WIDE) ~ 3.7 (TELE)
Object Distance	1.5 m
Iris Range	F1.4 ~ 22, Close
Angular Field of View	Horizontal: 1.9° (TELE) ~ 52° (WIDE) Vertical: 1.4° (TELE) ~ 40° (WIDE)

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Cleaning	ON/OFF
Image Hold	ON/OFF
Auto Image Stabilizer	ON/OFF
Scene Select Setting	INDOOR (L) / OUTDOOR (H) / OUTDOOR (L) / OUTDOOR (H)
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Lens

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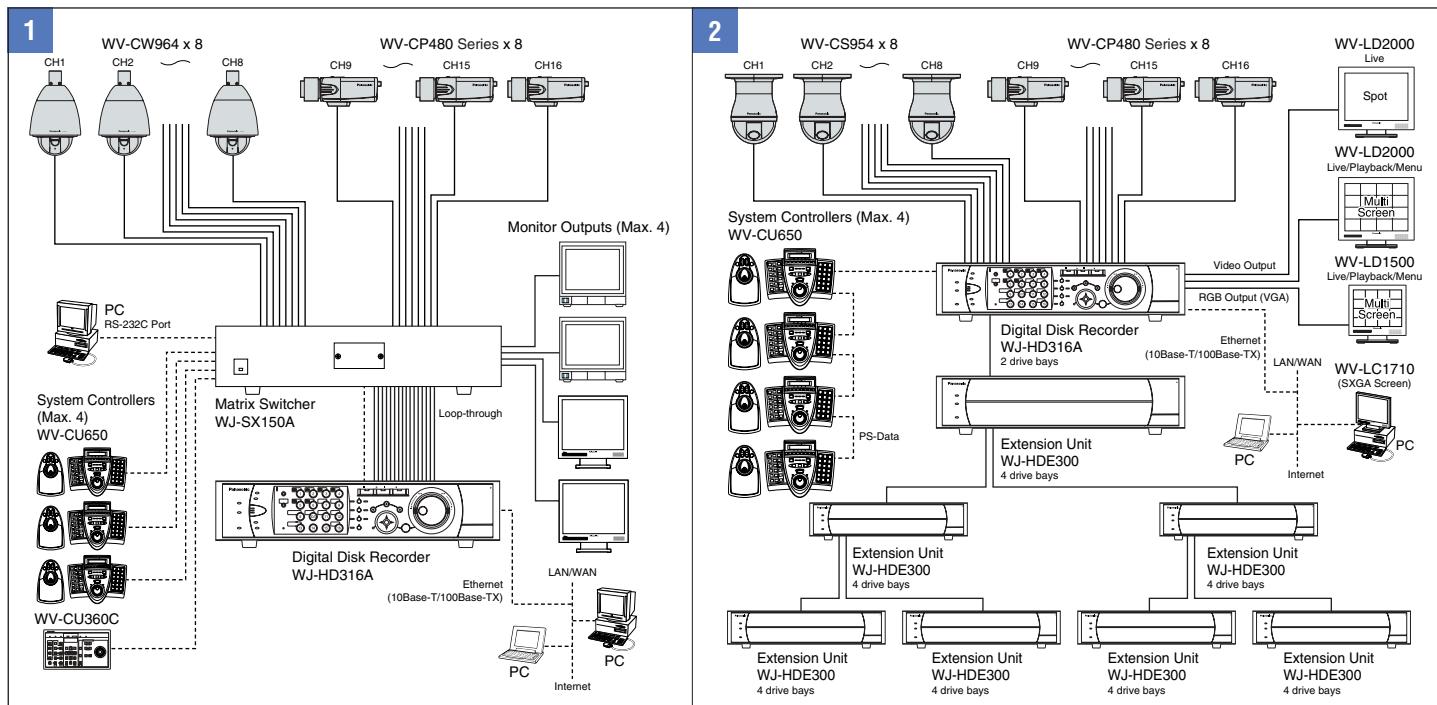
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Lens

Zoom Ratio	300 (30x optical zoom plus 10
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SYSTEM EXAMPLES



OPTIONAL COMPONENTS & ACCESSORIES

DIGITAL DISK RECORDERS

WJ-HD316A (16ch)
WJ-HD309A (9ch)
WJ-HD220 (8ch)



PS•Data

MATRIX SYSTEMS

SYSTEM 650
SYSTEM 150



COLOR MONITORS

WV-LC1710 43.2cm (17")
WV-LD1500 38.1cm (15")
WV-LD2000 50.8cm (20")
WV-CM1420 34cm (13")
WV-CM1020 22cm (9")



Panasonic Preserving the Environment

Energy Saving

Panasonic has used proprietary technology to develop the low-energy DSP's that have, for example, reduced energy consumption in our cameras by 9.4% since 1997, from 5.3 watts (WV-CP650) to 4.8 watts (WV-CP480).

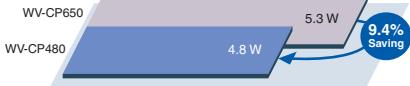
Color Surveillance Camera
WV-CP480



Image processing DSP



Energy-saving Trend



Package Recycling

To reduce waste and pollution, we have eliminated Styrofoam and minimized use of polyurethane film in our packaging.



Lead-free Solder

The hazardous effects of lead solder have been recognized since the 1980s. Panasonic has been a leader in addressing this issue and in 1998 introduced the world's first portable MD player with lead-free solder in its circuit board. The Security Systems Division is now phasing out use of lead solder in all of its products.



ISO14001 Certification

Besides our R&D Division, Panasonic has achieved the environmental ISO14001 certification for plants in Yokohama, Japan, and in Suzhou, China.

iF Design Award

The superior exterior shell design of Panasonic surveillance equipment has won recognition around the world. Our WV-CS950 Series indoor cameras won a 2006 iF design award.



Important – Safety Precaution: carefully read the operating instructions and installation manual before using this product.

• All TV pictures are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

Panasonic

Panasonic System Solutions Company

Unit Company of Panasonic Corporation of North America

Security Systems

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